Title (en)

Mechanism for actuating a dosage valve.

Title (de)

Betätigungsmechanismus für eine Dosierklappe.

Title (fr)

Mécanisme pour actionner un clapet de dosage.

Publication

EP 0134918 A1 19850327 (FR)

Application

EP 84106736 A 19840613

Priority

LU 84890 A 19830629

Abstract (en)

[origin: US4570900A] An apparatus for actuating a proportioning valve is presented. The valve consists of a pair of registers, each register having a cut-out portion defining a variable area orifice which is generally symmetrical about a central longitudinal axis through the orifice. The registers are respectively connected to a first and second drive shaft, the drive shafts being mounted about a common axis and being mounted in bearings in a frame such that by pivoting about the common axis, the drive shafts will urge the registers to simultaneously move in opposite directions. Each of the two drive shafts are provided with an arm which are pivotably connected to a tilting lever via a connecting rod. The two tilting levers are mounted on a pivot shaft which is parallel to the common axis of the two drive shafts. The tilting levers are also connected to a driving device, i.e., a hydraulic jack which acts to pivot them about their pivot shaft so that the registers are simultaneously actuated in opposite directions. Preferrably, one of the tilting levers is a substantially straight bar while the other of the tilting levers is a bent bar, the pivot shaft being connected between about the center portion of the straight bar and the bend portion of the bent bar.

Abstract (fr)

Le clapet de dosage est constitué de deux registres rotatifs (10, 12) en forme de calotte sphérique ou cylindrique pourvus de découpes symétriques par rapport à l'axe d'une ouverture centrale définie par le mouvement des registres et de leur découpe, ces registres étant solidaires de deux arbres d'entraînement (14, 16) disposés l'un coaxialement par rapport à l'autre et logés dans des paliers d'un châssis. En vue de la conception d'un mécanisme compact et économique pour actionner les arbres (14, 16), chacun de ceux-ci est pourvu d'un bras (24, 26), articulés chacun, par l'intermédiaire d'une bielle (28, 30), sur un levier culbuteur (32, 34), montés sur un axe de pivotement (36) parallèle à l'axe commun (0) des deux arbres (14, 16), ces leviers culbuteurs (32,34) étant reliés à un dispositif d'entraînement pour les faire pivoter autour de leur axe de pivotement (36).

IPC 1-7

B65D 90/66; C21B 7/20

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [AD] EP 0062770 B1 19850828
- [A] DE 2646618 A1 19780420 - BOSCH GMBH ROBERT
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